

GAMA Priority Basin Project

Generalized List of Analytes

WATER QUALITY CONSTITUENTS

250 different constituents are analyzed, on average

- Inorganic (for example: Lead, Arsenic, Nitrate)
- Organic (for example: Benzene, PCE, TCE)
- Radioactive (for example: Radon, Radium, Uranium)
- Microbiological (for example: E. coli, coliphage)
- Emerging Chemicals of Concern (for example: perchlorate, NDMA)

Laboratory methods provide low level detections

Health-based “thresholds” provide context (for example: Maximum Contaminant Limits)

HYDROLOGIC TRACERS

30 analyzed, on average

- Stable isotopes (for example: Oxygen/Hydrogen in Water; Oxygen/Nitrogen in Nitrate)
- Tritium/Helium
- Noble gases (for example: Xenon, Neon)
- Anthropogenic compounds (for example: VOCs, pesticides, wastewater indicators, pharmaceuticals)

GEOCHEMICAL INDICATORS

20 analyzed, on average

- pH
- Dissolved Oxygen
- Chemical speciation (for example: Iron, Arsenic, Chromium)
- Minor and major ions (for example: Arsenic, Iron, Magnanese, Calcium, Chloride, Fluoride)
- Isotopes of dissolved solutes (for example: Carbon, Chloride)

ANCILLARY DATA

recorded

- Hydrogeologic setting, well location, etc.
- Land use